

What is claimed is:

1. Process for the preparation of 2-methyl-2-hepten-6-one which comprises reacting 2-methyl-3-buten-2-ol with isopropenyl methyl ether in the presence of hydrogen tris(oxalato)phosphate or hydrogen bis(oxalato)borate.
2. A process as in claim 1 wherein the reaction is carried out in the presence of hydrogen tris(oxalato)phosphate.
3. A process as in claims 1 or 2 wherein the reaction is carried out under elevated pressure.
4. A process as in claim 3 wherein the reaction is carried out at  $10^5$  to  $20 \times 10^5$  Pa.
5. A process as in claim 3 wherein the reaction is carried out at  $5 \times 10^5$  to about  $15 \times 10^5$  Pa.
6. A process as in any one of claims 1 to 5 wherein the catalyst is present in an amount to provide a substrate/catalyst ratio of about 1000:1 to about 100:1, based on 2-methyl-3-buten-2-ol as the substrate.
7. A process as in claims 1 or 4 wherein the catalyst is present in amount to provide a substrate/catalyst ratio of about 900:1 to about 300:1, based on 2-methyl-3-buten-2-ol as the substrate.
8. A process as in any one of claims 1 to 7 wherein the ratio of 2-methyl-3-buten-2-ol to isopropenyl methyl ether is 1:1 to 1:3.
9. A process as in any one of claims 1 to 7 wherein the ratio of 2-methyl-3-buten-2-ol to isopropenyl methyl ether is 1:1 to 1:2.5.
10. A process as in any one of claims 1 to 9 wherein the reaction is carried out in continuous mode.